

## ABSTRACT

Systems, methods, and devices for providing secure authentication of a user to a machine and/or system and secure operation of the machine and/or system thereafter are provided. A representative method, amount others, includes: authenticating a user  
5 to a system directly or via a proximity device; authenticating the proximity device to a receiver in the system; upon successful authentication, initiating operation of the system; and intermittently communicating between the proximity device and the receiver to verify whether the proximity device is within continued proximity of the system.